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Search Results - Record(s) 1 through 11 of 11 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

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    L5: Entry 1 of 11                    File: PGPB              Nov 20, 2003


PGPUB-DOCUMENT-NUMBER: 20030217195
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030217195 A1


TITLE: Method and apparatus for managing host-based data services using CIM
providers


PUBLICATION-DATE: November 20, 2003


INVENTOR-INFORMATION:
NAME                          CITY          STATE    COUNTRY      RULE-47
Mandal, Chhandomay            Nashua        NH       US
DaCosta, Jillian I.           Nashua        NH       US
Cao, Lanshan                  Andover       MA       US
Pokigo, Roberta A.            Billerica     MA       US


US-CL-CURRENT: 719/330; 709/223, 719/321
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| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 2. Document ID: US 20030204557 A1

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    L5: Entry 2 of 11                    File: PGPB              Oct 30, 2003


PGPUB-DOCUMENT-NUMBER: 20030204557
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030204557 A1


TITLE: Method and apparatus for managing remote data replication using CIM
providers in a distributed computer system


PUBLICATION-DATE: October 30, 2003


INVENTOR-INFORMATION:
NAME                          CITY          STATE    COUNTRY      RULE-47
Mandal, Chhandomay            Nashua        NH       US
DaCosta, Jillian I.           Nashua        NH       US
```

| Cao, Lanshan | Andover | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |

US-CL-CURRENT: 709/202; 707/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 3.   Document ID: US 20030172088 A1

L5: Entry 3 of 11   File: PGPB   Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172088
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
DaCosta, Jillian I.	Nashua	NH	US	
Cao, Lanshan	Andover	MA	US	
France, Jonathan C.	Somerville	MA	US	
Du, Yuantai	Nashua	NH	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 707/200

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 4.   Document ID: US 20030105840 A1

L5: Entry 4 of 11   File: PGPB   Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	

Wagener, Peter J.	Somerville	MA	US
Pokigo, Roberta A.	Billerica	MA	US

US-CL-CURRENT: <u>709</u>/<u>220</u>; <u>709</u>/<u>223</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐   5.   Document ID: US 20030088713 A1

L5: Entry 5 of 11   File: PGPB   May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	
Wagener, Peter J.	Somerville	MA	US	
DaCosta, Jillian I.	Nashua	NH	US	
Pokigo, Roberta A.	Billerica	MA	US	
Goosey, Melora L.	Andover	MA	US	

US-CL-CURRENT: <u>719</u>/<u>328</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐   6.   Document ID: US 20030084198 A1

L5: Entry 6 of 11   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	

Wagener, Peter J.	Somerville	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Goosey, Melora L.	Andover	MA	US

US-CL-CURRENT: <u>719</u>/<u>316</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 7.   Document ID: US 20030084116 A1

L5: Entry 7 of 11   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084116
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Musante, Mark J.	Westford	MA	US	
Mandal, Chhandomay	Nashua	NH	US	
Newman, Howard A.	Arlington	MA	US	
Wagener, Peter J.	Somerville	MA	US	
Goosey, Melora L.	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: <u>709</u>/<u>217</u>; <u>709</u>/<u>201</u>, <u>709</u>/<u>203</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |

☐ 8.   Document ID: US 20030061399 A1

L5: Entry 8 of 11   File: PGPB   Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wagener, Peter J.	Somerville	MA	US	

Musante, Mark J.	Westford	MA	US
Mandal, Chhandomay	Nashua	NH	US
Goosey, Melora L.	Andover	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Quill, George J.	Clinton	MA	US
Gratzer, Peter L.	Broomfield	CO	US
DaCosta, Jillian I.	Nashua	NH	US
France, Jonathan C.	Somerville	MA	US

US-CL-CURRENT: 719/321; 719/328

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 9.   Document ID: US 20030061366 A1

L5: Entry 9 of 11   File: PGPB   Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061366
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer
system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Musante, Mark J.	Westford	MA	US	
Mandal, Chhandomay	Nashua	NH	US	
Wagener, Peter J.	Somerville	MA	US	
Zhang, Lanshan	Andover	MA	US	
Goosey, Melora L.	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 709/230; 709/237

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 10.   Document ID: US 20030033327 A1

L5: Entry 10 of 11   File: PGPB   Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033327
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed
computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Wagener, Peter J.	Somerville	MA	US	
Musante, Mark J.	Westford	MA	US	
DaCosta, Jillian I.	Nashua	NH	US	
Zhang, Lanshan	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 707/204

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 11. Document ID: US 6772178 B2

L5: Entry 11 of 11   File: USPT   Aug 3, 2004

US-PAT-NO: 6772178
DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandal; Chhandomay	Nashua	NH		
Wagener; Peter J.	Somerville	MA		
Musante; Mark J.	Westford	MA		
DaCosta; Jillian I.	Nashua	NH		
Zhang; Lanshan	Andover	MA		
Pokigo; Roberta A.	Billerica	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sun Microsystems, Inc.	Santa Clara	CA			02

APPL-NO: 09/ 917145   [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] G06 F 17/00

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223
US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217, 709/220, 709/223, 709/316, 711/162, 711/203, 714/5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
6002085	December 1999	Utsumi et al.	174/28
6058401	May 2000	Stamos et al.	707/201
6453326	September 2002	Parham et al.	707/204
6571232	May 2003	Goldberg et al.	707/2
6625613	September 2003	Thompson	707/102
2003/0014432	January 2003	Teloh et al.	707/204
2003/0014433	January 2003	Teloh et al.	707/204
2003/0014523	January 2003	Teloh et al.	709/226
2003/0033327	February 2003	Mandal et al.	707/204
2003/0061399	March 2003	Wagener et al.	709/321
2003/0074446	April 2003	Musante et al.	709/224
2003/0084116	May 2003	Musante et al.	709/217
2003/0084198	May 2003	Mandal et al.	709/316
2003/0088713	May 2003	Mandal et al.	709/328
2003/0105840	June 2003	Mandal et al.	709/220

OTHER PUBLICATIONS

Kyeongho et al., "Scheduling of storage and cache servers for replicatied multimedia data", IEEE, pp. 484-487, 1997.*
Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.*
Cai et al., A new medium access control for multi-channel Ad Hoc networks; IEEE, pp. 966-971.*
Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*
Vason P. Srnin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.
Madan et al., "A distributed real time database for heterogeneous computer controll systems", IEEE, pp. 435-440, 1995.
Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management facade software running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of federated Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The federated Java beans can run on any machine in the system

and communicate via the network. A data replication bean runs on each host and at least one such bean communicates directly with a management interface that is controlled by a user.

22 Claims, 18 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |

Term	Documents
API	79964
APIS	7357
(4 AND API).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11
(L4 AND API).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	11

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Search Results - Record(s) 1 through 14 of 14 returned.

☐ 1. Document ID: US 20030217195 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 14   File: PGPB   Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030217195
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030217195 A1

TITLE: Method and apparatus for managing host-based data services using CIM providers

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
DaCosta, Jillian I.	Nashua	NH	US	
Cao, Lanshan	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 719/330; 709/223, 719/321

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 20030204557 A1

L4: Entry 2 of 14   File: PGPB   Oct 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030204557
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030204557 A1

TITLE: Method and apparatus for managing remote data replication using CIM providers in a distributed computer system

PUBLICATION-DATE: October 30, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
DaCosta, Jillian I.	Nashua	NH	US	

Cao, Lanshan	Andover	MA	US
Pokigo, Roberta A.	Billerica	MA	US

US-CL-CURRENT: <u>709</u>/<u>202</u>; <u>707</u>/<u>204</u>

`[ Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De ]`

☐ 3. Document ID: US 20030172088 A1

L4: Entry 3 of 14   File: PGPB   Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030172088
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030172088 A1

TITLE: Method and apparatus for managing a data imaging system using CIM providers in a distributed computer system

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
DaCosta, Jillian I.	Nashua	NH	US	
Cao, Lanshan	Andover	MA	US	
France, Jonathan C.	Somerville	MA	US	
Du, Yuantai	Nashua	NH	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: <u>707</u>/<u>200</u>

`[ Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De ]`

☐ 4. Document ID: US 20030105840 A1

L4: Entry 4 of 14   File: PGPB   Jun 5, 2003

PGPUB-DOCUMENT-NUMBER: 20030105840
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030105840 A1

TITLE: Method and apparatus for managing configuration information in a distributed computer system

PUBLICATION-DATE: June 5, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	

| Wagener, Peter J. | Somerville | MA | US |
| Pokigo, Roberta A. | Billerica | MA | US |

US-CL-CURRENT: <u>709</u>/<u>220</u>; <u>709</u>/<u>223</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 5. Document ID: US 20030088713 A1

L4: Entry 5 of 14   File: PGPB   May 8, 2003

PGPUB-DOCUMENT-NUMBER: 20030088713
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030088713 A1

TITLE: Method and apparatus for managing data caching in a distributed computer
system

PUBLICATION-DATE: May 8, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	
Wagener, Peter J.	Somerville	MA	US	
DaCosta, Jillian I.	Nashua	NH	US	
Pokigo, Roberta A.	Billerica	MA	US	
Goosey, Melora L.	Andover	MA	US	

US-CL-CURRENT: <u>719/328</u>

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 6. Document ID: US 20030084198 A1

L4: Entry 6 of 14   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084198
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084198 A1

TITLE: Method and apparatus for managing data services in a distributed computer
system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Musante, Mark J.	Westford	MA	US	

Wagener, Peter J.	Somerville	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Goosey, Melora L.	Andover	MA	US

US-CL-CURRENT: 719/316

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 7.   Document ID: US 20030084116 A1

L4: Entry 7 of 14   File: PGPB   May 1, 2003

PGPUB-DOCUMENT-NUMBER: 20030084116
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030084116 A1

TITLE: Method and apparatus for discovering data services in a distributed computer system

PUBLICATION-DATE: May 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Musante, Mark J.	Westford	MA	US	
Mandal, Chhandomay	Nashua	NH	US	
Newman, Howard A.	Arlington	MA	US	
Wagener, Peter J.	Somerville	MA	US	
Goosey, Melora L.	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 709/217; 709/201, 709/203

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D |

☐ 8.   Document ID: US 20030061399 A1

L4: Entry 8 of 14   File: PGPB   Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061399
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061399 A1

TITLE: Method and apparatus for managing data volumes in a distributed computer system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Wagener, Peter J.	Somerville	MA	US	

Musante, Mark J.	Westford	MA	US
Mandal, Chhandomay	Nashua	NH	US
Goosey, Melora L.	Andover	MA	US
Pokigo, Roberta A.	Billerica	MA	US
Quill, George J.	Clinton	MA	US
Gratzer, Peter L.	Broomfield	CO	US
DaCosta, Jillian I.	Nashua	NH	US
France, Jonathan C.	Somerville	MA	US

US-CL-CURRENT: <u>719</u>/<u>321</u>; <u>719</u>/<u>328</u>

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 9.   Document ID: US 20030061366 A1

L4: Entry 9 of 14   File: PGPB   Mar 27, 2003

PGPUB-DOCUMENT-NUMBER: 20030061366
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030061366 A1

TITLE: Method and apparatus for managing data imaging in a distributed computer system

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Musante, Mark J.	Westford	MA	US	
Mandal, Chhandomay	Nashua	NH	US	
Wagener, Peter J.	Somerville	MA	US	
Zhang, Lanshan	Andover	MA	US	
Goosey, Melora L.	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: <u>709</u>/<u>230</u>; <u>709</u>/<u>237</u>

`Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D`

☐ 10.   Document ID: US 20030033327 A1

L4: Entry 10 of 14   File: PGPB   Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030033327
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030033327 A1

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Mandal, Chhandomay	Nashua	NH	US	
Wagener, Peter J.	Somerville	MA	US	
Musante, Mark J.	Westford	MA	US	
DaCosta, Jillian I.	Nashua	NH	US	
Zhang, Lanshan	Andover	MA	US	
Pokigo, Roberta A.	Billerica	MA	US	

US-CL-CURRENT: 707/204

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De

☐   11.   Document ID: US 6772178 B2

L4: Entry 11 of 14   File: USPT   Aug 3, 2004

US-PAT-NO: 6772178
DOCUMENT-IDENTIFIER: US 6772178 B2

TITLE: Method and apparatus for managing remote data replication in a distributed computer system

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mandal; Chhandomay	Nashua	NH		
Wagener; Peter J.	Somerville	MA		
Musante; Mark J.	Westford	MA		
DaCosta; Jillian I.	Nashua	NH		
Zhang; Lanshan	Andover	MA		
Pokigo; Roberta A.	Billerica	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Sun Microsystems, Inc.	Santa Clara	CA			02

APPL-NO: 09/ 917145   [PALM]
DATE FILED: July 27, 2001

INT-CL: [07] G06 F 17/00

US-CL-ISSUED: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223
US-CL-CURRENT: 707/204; 707/10, 707/200, 709/217, 709/220, 709/223

FIELD-OF-SEARCH: 707/10, 707/200, 707/204, 709/226, 709/201, 709/203, 709/217, 709/220, 709/223, 709/316, 711/162, 711/203, 714/5

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
6002085	December 1999	Utsumi et al.	174/28
6058401	May 2000	Stamos et al.	707/201
6453326	September 2002	Parham et al.	707/204
6571232	May 2003	Goldberg et al.	707/2
6625613	September 2003	Thompson	707/102
2003/0014432	January 2003	Teloh et al.	707/204
2003/0014433	January 2003	Teloh et al.	707/204
2003/0014523	January 2003	Teloh et al.	709/226
2003/0033327	February 2003	Mandal et al.	707/204
2003/0061399	March 2003	Wagener et al.	709/321
2003/0074446	April 2003	Musante et al.	709/224
2003/0084116	May 2003	Musante et al.	709/217
2003/0084198	May 2003	Mandal et al.	709/316
2003/0088713	May 2003	Mandal et al.	709/328
2003/0105840	June 2003	Mandal et al.	709/220

OTHER PUBLICATIONS

Kyeongho et al., "Scheduling of storage and cache servers for replicatied multimedia data", IEEE, pp. 484-487, 1997.*
Bhide et al., "Implicit replication in a network file server", IEEE, pp. 85-90.*
Cai et al., A new medium access control for multi-channel Ad Hoc networks; IEEE, pp. 966-971.*
Makpangou et al., "Replicated directory service for weakly consistent distributed caches", ACN, pp1-9.*
Vason P. Srnin, "An architecture for extended abstract data flow", IEEE, pp. 303-325, 1981.
Madan et al., "A distributed real time database for heterogeneous computer controll systems", IEEE, pp. 435-440, 1995.
Pu et al., "Replica control in distributed systems", ACM, pp. 377-386, 1991.

ART-UNIT: 2171

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Kudirka & Jobse, LLP

ABSTRACT:

A three-tiered data replication management system is used on a distributed computer system connected by a network. The lowest tier comprises management facade software running on each machine that converts a platform-dependent interface written in low-level kernel routines that actually perform the data replication to platform-independent method calls. The middle tier is a set of federated Java beans, which communicate with each other, with the management facades, and with the upper tier of the system. The upper tier of the inventive system comprises presentation programs that can be directly manipulated by management personnel to view and control the system. The federated Java beans can run on any machine in the system

and communicate via the network. A data replication bean runs on each host and at
least one such bean communicates directly with a management interface that is
controlled by a user.

22 Claims, 18 Drawing figures

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   12.   Document ID: US 20030217195 A1

L4: Entry 12 of 14   File: DWPI   Nov 20, 2003

DERWENT-ACC-NO: 2004-021910
DERWENT-WEEK: 200402
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TITLE: Data service managing method for distributed computer system, involves
running management facade software having common information model client in server
to control provider, and federated bean

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0147275 (May 16, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030217195 A1	November 20, 2003		025	G06F009/46

INT-CL (IPC): G06 F 9/46

ABSTRACTED-PUB-NO: US20030217195A
BASIC-ABSTRACT:

NOVELTY - The method involves running a common information model (CIM) provider
(718) in a host computer system to organize a driver software for data service. A
management facade software with a CIM client is run in a server to control the
provider. A federated bean generates method calls to the software. Data service
commands from a management terminal are provided to the bean to control the
provider to organize the service.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) an apparatus for managing a data service in a distributed computer system

(b) a computer program product for managing a data service in a distributed
computer system.

USE - Used for managing a data service in a distributed computer system.

ADVANTAGE - The server management facade software controls the CIM provider so as
to eliminate the log in of the provider into each host system.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram demonstrating the
illustration of a simple data replication system using the principles of a data
service managing method.

Management server system 702

Webserver 704

Federated beans 706   .

Management facade 708

CIM provider 718

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw De |

☐   13.   Document ID: US 20030204557 A1

L4: Entry 13 of 14   File: DWPI   Oct 30, 2003

DERWENT-ACC-NO: 2003-900773
DERWENT-WEEK: 200382
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TITLE: Remote data replication management method in distributed computer system,
involves running federated bean in management server to control common information
model providers

INVENTOR: CAO, L; DACOSTA, J I ; MANDAL, C ; POKIGO, R A

PRIORITY-DATA: 2002US-0134711 (April 29, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030204557 A1	October 30, 2003		035	G06F017/30

INT-CL (IPC): G06 F 12/00; G06 F 15/16; G06 F 17/30

ABSTRACTED-PUB-NO: US20030204557A
BASIC-ABSTRACT:

NOVELTY - A management facade software running in management server, includes a
common information model (CIM) client (424), for controlling CIM providers of CIM
objects running in respective host devices (406). A federated bean running in
server, controls the CIM providers, to configure storage devices for data
replications, based on data replication commands from management terminal.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) apparatus for managing remote data replication;

(2) remote data replication management program; and

(3) computer data signal for managing remote data replication.

USE - For managing remote data replication in distributed computer system.

ADVANTAGE - The storage devices for data replication are easily configured by
controlling the CIM providers.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data replication system.

logic tier 402

host device 406

CIM client 424

data replication graphical user interface 446

proxy 448

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | | Claims | KWIC | Draw De |

☐ 14. Document ID: US 20030084198 A1

L4: Entry 14 of 14   File: DWPI   May 1, 2003

DERWENT-ACC-NO: 2003-606081
DERWENT-WEEK: 200357
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TITLE: Data service management method for distributed computer system, involves controlling data passing between driver software and database and retrieving data service attributes, by management facades using proxy for Java bean

INVENTOR: GOOSEY, M L; MANDAL, C ; MUSANTE, M J ; POKIGO, R A ; WAGENER, P J

PRIORITY-DATA: 2001US-0021471 (October 30, 2001)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20030084198 A1	May 1, 2003		023	G06F009/46

INT-CL (IPC): G06 F 9/46

ABSTRACTED-PUB-NO: US20030084198A
BASIC-ABSTRACT:

NOVELTY - Management facade software is executed in host (200) to control data passing between driver software and database, and to retrieve data service attributes. Each federated Java bean (230,234) is executed to generate commands to management facades (240,244). Lookup service is used to obtain proxy to each Java bean. Data is controlled and attributes are retrieved by management facades using proxy, in response to commands.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(1) data service managing apparatus; and

(2) computer program product for managing data service.

USE - For managing data services such as replication, mirroring, scheduling, logging, transaction, control and data snapshots in distributed computer system

connected to Internet.

ADVANTAGE - By providing the management facades, the data services can be managed from a single location.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the data service management system.

host 200

federated Java beans 230,234

management facades 240,244

| Full | Title | Citation | Front | Review | Classification | Date | Reference | | | Claims | KWIC | Draw D |

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Term	Documents
FEDERATED	787
FEDERATEDS	0
(1 AND FEDERATED).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14
(L1 AND (FEDERATED)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14

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